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**CLAIMS:**

What is claimed is:

1. A method in a data processing system for  
5 transferring data, the method comprising:  
    sending a request, wherein the request includes an  
    amount of available processing space at the data  
    processing system; and  
    receiving a subsequence of data packets from a set  
10 of subsequences of data packets in response to the  
    request each time the amount of available processing  
    space is free, wherein data within each subsequence  
    within the set of subsequences of data packets fits  
    within the amount of available processing space.  
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2. The method of claim 1, wherein the data packets are  
    management datagrams.
3. The method of claim 1, wherein a particular  
20 subsequence of data packets within the set of  
    subsequences of data packets has an amount of data less  
    than the amount of available processing space.
4. The method of claim 1, wherein a particular data  
25 packet within a subsequence includes a fragment flag  
    indicating whether the particular packet is a first data  
    packet or a last data packet of a data transfer  
    operation.
- 30 5. The method of claim 1, wherein a particular data  
    packet is a last data packet within the set of

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subsequences of data packets.

6. The method of claim 1, wherein each subsequence  
within the set of subsequences of data packets has a  
5 different amount of data.

7. The method of claim 1, wherein the data packets  
includes a segment number.

10 8. The method of claim 1 further comprising:  
reassembling data within the data packets into a  
correct order.

9. The method of claim 8, wherein each data packet  
15 within the set of subsequences of data packets includes a  
segment number and wherein the data is reassembled using  
the segment number.

10. The method of claim 1, wherein the amount of  
20 available space is a buffer in the data processing  
system.

11. The method of claim 1, wherein the amount of  
available processing space is a buffer allocated within a  
25 memory in the data processing system.

12. A method in a data processing system for  
transferring data, the method comprising:  
receiving a request from a requestor, wherein the  
30 request includes an amount of available space;  
identifying data using the request;

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placing the data into a plurality of subsequences of data packets, wherein each subsequence within the set of subsequences hold data in an amount less than or equal to the amount of available space; and

5        sending the plurality of subsequences of data packets to the requestor.

13. The method of claim 12, wherein a first data packet and a last data packet within the plurality of  
10        subsequences of data packets includes a payload length.

14. The method of claim 12, wherein a data packet within the plurality of subsequences of data packets includes a fragment flag to indicate whether the data packet is a  
15        first data packet or a last data packet to be sent for a data transfer operation.

15. The method of claim 12, wherein the sending step comprises:  
20        sending an unsent subsequence of data packets within the plurality of subsequences of data packets to the requestor;

             monitoring for a reply indicating that the amount of available space is free at the requestor; and  
25        responsive to another unsent subsequence of data packets being present within the plurality of data packets and detecting the reply, repeating the sending and monitoring steps.

30        16. A data processing system comprising:  
             a bus system;

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a communications unit connected to the bus, wherein data is sent and received using the communications unit;

a memory connected to the bus system, wherein a set of instructions are located in the memory; and

5 a processor unit connected to the bus system, wherein the processor unit executes the set of instructions to send a request, wherein the request includes an amount of available processing space at the data processing system; and receive a subsequence of data  
10 packets from a set of data packets in response to the request each time the amount of available processing space is free, wherein data within each subsequence of data packets fits within the amount of available processing space.

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17. The data processing system of claim 16, wherein the bus system includes a primary bus and a secondary bus.

18. The data processing system of claim 16, wherein the  
20 processor unit includes a single processor.

19. The data processing system of claim 16, wherein the processor unit includes a plurality of processors.

25 20. The data processing system claim 16, wherein the communications unit is an Ethernet adapter.

21. A data processing system comprising:  
a bus system;

30 a communications unit connected to the bus, wherein data is sent and received using the communications unit;

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a memory connected to the bus system, wherein a set of instructions are located in the memory; and

a processor unit connected to the bus system, wherein the processor unit executes the set of  
5 instructions to receive a request from a requestor, wherein the request includes an amount of available space; identify data using the response; place the data into a plurality of subsequences of data packets, wherein each subsequence within the set of subsequences holds  
10 data in amount less than or equal to the amount of available space; and send the plurality of subsequences of data packets to the requestor.

22. A data processing system for transferring data, the  
15 data processing system comprising:

sending means for sending a request, wherein the request includes an amount of available processing space at the data processing system; and

receiving means for receiving a subsequence of data  
20 packets from a set of subsequences of data packets in response to the request each time the amount of available processing space is free, wherein data within each subsequence of data packets fits within the amount of available processing space.

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23. The data processing system of claim 22, wherein the data packets are management datagrams.

24. The data processing system of claim 22, wherein a  
30 particular data packet within the set of subsequences of data packets has an amount of data less than the amount

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of available processing space.

25. The data processing system of claim 22, wherein a particular data packet in a subsequence includes a  
5 fragment flag indicating whether the particular packet is first data packet or last data packet of a data transfer operation.

26. The data processing system of claim 22, wherein the  
10 particular data packet is a last data packet within the set of subsequences of data packets.

27. The data processing system of claim 22, wherein each  
15 subsequence within the set of subsequences of data packets has a different amount of data.

28. The data processing system of claim 22, wherein the data packets includes a segment number.

29. The data processing system of claim 22 further comprising:

reassembling means for reassembling data within the data packets into a correct order.

30. The data processing system of claim 29, wherein each data packet within the set of subsequences of data packets includes a segment number and wherein the data is reassembled using the segment number.

31. The data processing system of claim 22, wherein the amount of available space is a buffer in the data

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processing system.

32. The data processing system of claim 22, wherein the amount of available processing space is a buffer  
5 allocated within a memory in the data processing system.

33. A data processing system for transferring data, the data processing system comprising:

receiving means for receiving a request from a  
10 requestor, wherein the request includes an amount of available space;

identifying means for identifying data using the response;

placing means for placing the data into a plurality  
15 of subsequences of data packets, wherein each subsequence within the plurality of subsequences of data packets holds data in amount less than or equal to the amount of available space; and

sending means for sending the plurality of  
20 subsequences of data packets to the requestor.

34. The data processing system of claim 33, wherein a first data packet and a last data packet within the plurality of subsequences of data packets includes a  
25 payload length.

35. The data processing system of claim 33, wherein a data packet within the plurality of subsequences of data packets includes a fragment flag to indicate whether the  
30 data packet is a first data packet or a last data packet to be sent for a data transfer operation.

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36. The data processing system of claim 33, wherein the sending step comprises:

- 5        sending means for sending an unsent data packet within the plurality of data packets to the requestor;
- monitoring means for monitoring for a reply indicating that the amount of available space is free at the requestor; and
- 10        repeating means, responsive to another unsent data packet being present within the plurality of data packets and detecting the reply, for repeating initiation of the sending means and monitoring means.

37. A computer program product in a computer readable medium for use in transferring data in a data processing system, the computer program product comprising:

15        first instructions for sending a request, wherein the request includes an amount of available processing space at the data processing system; and

- 20        second instructions for receiving a subsequence of data packets from a set of subsequences of data packets in response to the request each time the amount of available processing space is free, wherein data within each subsequence of data packets fits within the amount
- 25        of available processing space.

38. A computer program product in a computer readable medium for transferring data in a data processing system, the computer program product comprising:

- 30        first instructions for receiving a request from a requestor, wherein the request includes an amount of



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available space;

second instructions for identifying data using the response;

third instructions for placing the data into a  
5 plurality of subsequences of data packets, wherein each  
subsequence within the set of subsequences holds data in  
amount less than or equal to the amount of available  
space; and

fourth instructions for sending the plurality of  
10 subsequences of data packets to the requestor.

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